

09931101\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09931101 on May 07, 2004

- 5 455/132 (0 OR, 5 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/132 .Plural receivers
- 3 343/700MS (3 OR, 0 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/700MS .Microstrip
- 3 343/702 (1 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/702 .With radio cabinet
- 3 343/713 (2 OR, 1 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/711 .With vehicle
  - 343/713 ..Supported by vehicle body
- 3 343/840 (1 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/834 .Antenna with parasitic reflector
  - 343/840 ..Parabolic-type reflector with active antenna at focus
- 3 343/909 (0 OR, 3 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/907 .Antenna components
  - 343/909 ..Refracting means and radio wave energy filters (e.g., lenses and polarizers)
- 3 455/12.1 (3 OR, 0 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E., RETRANSMISSION OF SAME INFORMATION)
  - 455/11.1 .Portable or mobile repeater
  - 455/12.1 ..Space satellite

09931101\_CLSTITLES

3 455/427 (2 OR, 1 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/403 RADIOTELEPHONE SYSTEM  
     455/422.1 .Zoned or cellular telephone system  
     455/427 ..Space satellite

3 455/78 (0 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
                     TRANSCEIVER)  
     455/78 .With transmitter-receiver switching or  
                     interaction prevention

3 725/68 (0 OR, 3 XR)  
     Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS  
     725/63 SATELLITE VIDEO DISTRIBUTION SYSTEM  
     725/68 .Receiver

2 327/99 (2 OR, 0 XR)  
     Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
                     DEVICES, CIRCUITS, AND SYSTEMS  
     327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G.,  
                     COMPARING, SELECTING, ETC.) WITHOUT SUBSEQ  
 UENT CONTROL  
     327/99 .Having selection between plural continuous  
                     waveforms

2 333/132 (1 OR, 1 XR)  
     Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
     333/1 PLURAL CHANNEL SYSTEMS  
     333/100 .Having branched circuits  
     333/132 ..For providing frequency separation

2 342/354 (1 OR, 1 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/352 .Including a satellite  
     342/354 ..With beam steering

2 342/357.06 (1 OR, 1 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/352 .Including a satellite  
     342/357.01 ..With position indicating  
     342/357.06 ...Using Global Positioning Satellite (GPS or

09931101 CLSTITLES  
Glonass)

- 2 342/357.09 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating  
342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)  
342/357.09 ....With transmission of location-indicative  
information to or from a remote station
- 2 342/372 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/368 .Including a steerable array  
342/371 ..With electronic scanning  
342/372 ...Controlled
- 2 343/725 (1 OR, 1 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/725 .Plural separate diverse type
- 2 343/753 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/753 .With spaced or external radio wave refractor  
(e.g., lens)
- 2 343/841 (1 OR, 1 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/841 .With electrical shield
- 2 343/895 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/895 .Spiral or helical type
- 2 455/13.3 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
RETRANSMISSION OF SAME INFORMATION)  
455/11.1 .Portable or mobile repeater  
455/12.1 ..Space satellite

09931101\_CLSTITLES

455/13.3 ...With antenna feed network or multiple  
antenna switching

- 2 455/133 (1 OR, 1 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER
  - 455/132 .Plural receivers
  - 455/133 ..With output selecting
  
- 2 455/272 (0 OR, 2 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER
  - 455/269 .With wave collector (e.g., antenna)
  - 455/272 ..Plural separate collectors
  
- 2 455/277.1 (0 OR, 2 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER
  - 455/269 .With wave collector (e.g., antenna)
  - 455/272 ..Plural separate collectors
  - 455/277.1 ...Selectively or alternately connected to  
receiver
  
- 2 455/323 (2 OR, 0 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER
  - 455/313 .Frequency modifying or conversion
  - 455/323 ..Particular frequency conversion structure or  
circuitry
  
- 2 455/330 (0 OR, 2 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER
  - 455/313 .Frequency modifying or conversion
  - 455/323 ..Particular frequency conversion structure or  
circuitry
  - 455/325 ...Including distributed electrical parameter  
structure
  - 455/330 ....With nonlinear impedance (e.g., diode)
  
- 2 455/552.1 (1 OR, 1 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

09931101\_CLSTITLES

TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail  
455/552.1 ..Operable on more than one system

2 725/71 (1 OR, 1 XR)  
Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS  
725/63 SATELLITE VIDEO DISTRIBUTION SYSTEM  
725/68 .Receiver  
725/71 ..For providing signals to plural subsequent  
receivers

09931101\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09931101 on May 07, 2004

Original Classifications

3 343/700MS  
3 455/12.1  
2 327/99  
2 343/713  
2 455/323  
2 455/427

Cross-Reference Classifications

5 455/132  
3 343/909  
3 455/78  
3 725/68  
2 343/702  
2 343/753  
2 343/840  
2 343/895  
2 455/13.3  
2 455/272  
2 455/277.1  
2 455/330

Combined Classifications

5 455/132  
3 343/700MS  
3 343/702  
3 343/713  
3 343/840  
3 343/909  
3 455/12.1  
3 455/427  
3 455/78  
3 725/68  
2 327/99  
2 333/132  
2 342/354  
2 342/357.06  
2 342/357.09  
2 342/372  
2 343/725  
2 343/753  
2 343/841  
2 343/895  
2 455/13.3

09931101\_CLS

2 455/133  
2 455/272  
2 455/277.1  
2 455/323  
2 455/330  
2 455/552.1  
2 725/71

09931101\_QUAL

5748049 71  
5606334 71  
6281852 71  
6366622 70  
6052559 66  
6538609 66  
6686882 66  
6326922 66  
6100847 64  
6185434 64  
5903820 64  
6005756 62  
6111474 60  
5493718 60  
5659894 60  
6549774 60  
5002502 60  
6201497 60  
6707424 60  
6205319 59  
4864317 59  
5548294 59  
5736959 59  
4783848 59  
5793328 59  
6144259 59  
6182011 59  
6690330 59  
4424591 59  
4503379 58  
4369521 58  
6337754 58  
6384696 58  
6396365 58  
4606074 58  
6049562 58  
6087906 58  
6342869 58  
4792993 57  
5708963 57  
6452989 57  
6512485 57  
5603107 56  
5184084 56  
5467094 56  
5670902 56  
5301352 56  
5565805 56



09931101\_QUAL

6348986 56  
6477370 56

09931101 WEST

(5748049 5606334 6281852 6366622 6052559 6538609 6686882 6326922 61008  
47 6185434 5903820 6005756 6111474 5493718 5659894 6549774 5002502 620  
1497 6707424 6205319 4864317 5548294 5736959 4783848 5793328 6144259 6  
182011 6690330 4424591 4503379 4369521 6337754 6384696 6396365 4606074  
6049562 6087906 6342869 4792993 5708963 6452989 6512485 5603107 51840  
84 5467094 5670902 5301352 5565805 6348986 6477370).pn.

Plus  
Search  
09/93/101

09931101\_EAST

(5748049  
5606334  
6281852  
6366622  
6052559  
6538609  
6686882  
6326922  
6100847  
6185434  
5903820  
6005756  
6111474  
5493718  
5659894  
6549774  
5002502  
6201497  
6707424  
6205319  
4864317  
5548294  
5736959  
4783848  
5793328  
6144259  
6182011  
6690330  
4424591  
4503379  
4369521  
6337754  
6384696  
6396365  
4606074  
6049562  
6087906  
6342869  
4792993  
5708963  
6452989  
6512485  
5603107  
5184084  
5467094  
5670902  
5301352  
5565805

6348986  
6477370) .pn.

09931101\_EAST

ability 1  
abstract 1  
accordance 1  
accordingly 1  
achieved 1  
addressing 1  
allocated 1  
allocation 1  
also 2  
amplifier 1  
amplifiers 1  
an 7  
and 29  
another 6  
antenna 25  
antennae 12  
applied 2  
applies 1  
approximately 1  
arc 1  
are 18  
areas 1  
arranged 1  
as 1  
associated 1  
assured 1  
at 4  
audio 1  
back 7  
background 2  
band 1  
be 7  
been 1  
being 1  
best 1  
better 1  
blockage 1  
both 4  
broadcast 9  
broadcasting 1  
by 5  
cable 1  
calls 1  
can 5  
canyons 1  
capable 1  
channels 3  
circuit 13

combined 1  
coming 2  
commercials 1  
commission 1  
common 1  
communication 3  
communications 1  
complete 1  
conductor 3  
conductors 1  
confirmed 2  
confirming 1  
connected 14  
connection 20  
connects 1  
consumer 2  
content 2  
continental 1  
covenng 1  
coverage 3  
data 1  
dc 12  
density 1  
deploying 1  
desirability 1  
detect 2  
detected 3  
detecting 1  
detection 8  
determining 1  
different 1  
digital 2  
directed 2  
disclosure 1  
diversity 1  
document 1  
each 2  
electrically 1  
electromagnetic 1  
embodiment 2  
employed 1  
employing 1  
employs 2  
ensunng 1  
ensured 1  
entire 1  
equipment 1  
especially 1

established 1  
example 1  
fcc 2  
federal 1  
feed 6  
feeds 1  
fewer 1  
field 1  
first 13  
fixed 1  
following 1  
for 12  
four 1  
frequency 1  
from 8  
further 2  
generating 2  
geostationary 1  
geosynchronous 1  
granted 1  
greater 1  
ground 1  
grounded 4  
has 2  
having 1  
high 1  
highest 1  
hot 1  
housed 1  
however 1  
if 1  
implementation 1  
important 1  
improve 2  
in 19  
inbound 1  
inc 1  
includes 1  
including 1  
indeed 2  
indicates 1  
indication 2  
interference 1  
intermittent 1  
into 1  
invention 15  
is 29  
issues 1

it 10  
joined 1  
lead 2  
leads 1  
least 2  
licenses 1  
limited 1  
line 1  
lna 15  
lnas 3  
loop 3  
looped 5  
los 1  
low 2  
megahertz 1  
method 2  
mhz 4  
mitigation 1  
mobile 2  
module 11  
more 4  
mounted 1  
moving 1  
muhipath 1  
music 1  
national 1  
nearly 1  
new 1  
news 1  
noise 2  
non 4  
not 2  
now 2  
ny 1  
object 7  
objects 1  
obtain 1  
obtained 1  
october 1  
of 41  
offenng 2  
offer 1  
on 5  
one 6  
oop 1  
operators 1  
or 5  
order 1



other 4  
outbound 1  
outputs 2  
owned 2  
part 1  
particular 2  
particularly 1  
path 1  
pathway 1  
piece 1  
plan 1  
point 1  
pon 1  
population 1  
port 12  
ports 1  
positive 2  
potential 1  
power 1  
preferably 6  
preferred 3  
presence 3  
present 12  
program 2  
properly 2  
provide 9  
provided 2  
provider 1  
providing 1  
quality 3  
radio 15  
radios 1  
receive 1  
receiver 14  
receivers 2  
receiving 1  
reception 7  
regulated 2  
reinforcement 1  
reliability 1  
reliable 1  
remaining 1  
repeater 1  
repeaters 1  
respective 2  
respectively 1  
returned 1  
returns 1

same 1  
 satellite 14  
 satellites 1  
 scheme 1  
 second 14  
 separate 1  
 service 1  
 services 2  
 sight 1  
 signal 20  
 signals 2  
 significant 1  
 simultaneously 1  
 single 1  
 sinus 1  
 slots 4  
 so 2  
 soon 1  
 source 2  
 spatial 1  
 specifically 1  
 spectrum 1  
 split 1  
 sports 1  
 states 1  
 still 1  
 such 1  
 sugnal 1  
 summary 1  
 superimposed 1  
 system 4  
 talk 1  
 terrestnal 4  
 terrestrial 3  
 that 20  
 the 84  
 there 2  
 thereby 1  
 therefore 1  
 these 2  
 this 2  
 through 3  
 time 1  
 to 35  
 together 1  
 transistor 3  
 transmission 2  
 two 10

09931101\_WDS

united 1  
urban 1  
us 3  
used 3  
vehicles 1  
vi 1  
via 1  
view 2  
voltage 10  
washington 1  
were 1  
when 2  
whereby 2  
wherein 2  
whether 2  
which 3  
while 1  
will 5  
with 7  
within 1  
would 1  
xm 1  
yet 1  
york 1

09931101\_LIST

PLUS Search Results for S/N 09931101, Searched May 07, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5748049  
5606334  
6281852  
6366622  
6052559  
6538609  
6686882  
6326922  
6100847  
6185434  
5903820  
6005756  
6111474  
5493718  
5659894  
6549774  
5002502  
6201497  
6707424  
6205319  
4864317  
5548294  
5736959  
4783848  
5793328  
6144259  
6182011  
6690330  
4424591  
4503379  
4369521  
6337754  
6384696  
6396365  
4606074  
6049562  
6087906

09931101\_LIST

6342869  
4792993  
5708963  
6452989  
6512485  
5603107  
5184084  
5467094  
5670902  
5301352  
5565805  
6348986  
6477370